

## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A crystal of comprising a polypeptide having the amino acid sequence of residues 29-766 of SEQ ID NO: 2 and a polyhistidine tag optionally being added to a C-terminal side or N-terminal side thereof wherein the crystal diffracts x-rays for the determination of the atomic coordinates of the polypeptide at a resolution of 3 Å or less.
2. (Cancelled)
3. (Currently Amended) A crystal of comprising a polypeptide having the amino acid sequence of residues 33-766 of SEQ ID NO: 2 and a polyhistidine tag optionally being added to a C-terminal side or N-terminal side thereof wherein the crystal diffracts x-rays for the determination of the atomic coordinates of the polypeptide at a resolution of 3 Å or less.
4. (Previously presented) The crystal according to claim 1 or 3 wherein the crystal has a space group of  $P2_12_12_1$ , and a lattice constant of the unit cell of  $|a| = 118.0 \pm 5.0\text{\AA}$ ,  $|b| = 125.9 \pm 5.0\text{\AA}$ ,  $|c| = 136.8 \pm 5.0\text{\AA}$ , and  $\alpha = \beta = \gamma = 90^\circ$ , and is orthorhombic.
5. (Previously presented) The crystal according to claim 1 or 3 wherein the crystal has the structural coordinates shown in Figure 4.
6. (Previously presented) The crystal according to claim 1 or 3 wherein the crystal has structural coordinates different from the structural coordinates as shown in Figure 4 via fluctuation of a protein.

7-24. (Cancelled)

25. (Currently Amended) The crystal according to claim 1 or 3, wherein the ~~polypeptide further comprises a polyhistidine tag~~ is added to the C-terminal side of the polypeptide.

26. (Previously presented) The crystal according to claim 1 or 3 wherein the crystal diffracts x-rays for the determination of the atomic coordinates of the polypeptide at a resolution of 2.8 Å or less.

27. (Previously presented) The crystal according to claim 1 or 3 wherein the crystal diffracts x-rays for the determination of the atomic coordinates of the polypeptide at a resolution of 2.6 Å or less.

28. (Previously presented) The crystal according to claim 1 or 3, wherein amino acid residues Ser 630, Asp 708 and His 740 of SEQ ID NO:2 have the structural coordinates shown in Figure 4.